

### SERIAL NUMBERS

You must know the model serial number for registration purposes and when ordering replacement parts.

The frame serial number is stamped on the side of the steering head (**Figure 2**). The engine serial number is located on the lower left-hand side of the crankcase (**Figure 3**). The carburetor identification number is located on the left-hand side of the carburetor body mounting flange adjacent to the intake tube (**Figure 4**).

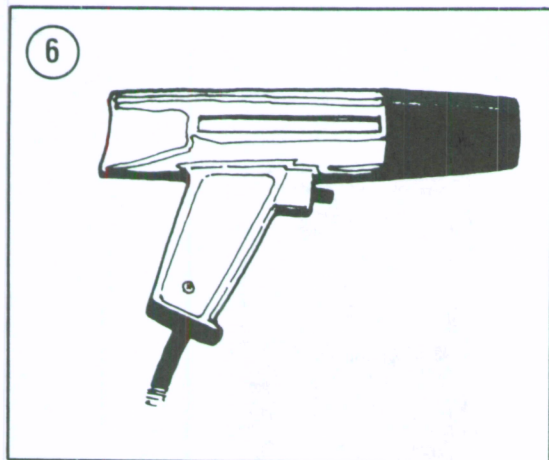
### TUNE-UP AND TROUBLESHOOTING TOOLS

#### Multimeter or VOM

This instrument (**Figure 5**) is invaluable for electrical system troubleshooting and service. A few of its functions may be duplicated by homemade test equipment, but for the serious mechanic it is a must. Its uses are described in the applicable sections of the book.

#### Strobe Timing Light

This instrument is necessary for tuning. By flashing a light at the precise instant the spark plug fires, the position of the timing mark can be seen. Marks on the alternator flywheel line up with the stationary mark on the crankcase while the engine is running.



Suitable lights range from inexpensive neon bulb types to powerful xenon strobe lights (Figure 6). Neon timing lights are difficult to see and must be used in dimly lit areas. Xenon strobe timing lights can be used outside in bright sunlight. Both types work on the ATC; use according to the manufacturer's instructions.

#### Portable Tachometer

A portable tachometer (Figure 7) is necessary for tuning. Ignition timing and carburetor adjustments must be performed at the specified idle speed. The best instrument for this purpose is one with a low range of 0-1,000 or 0-2,000 rpm range and a high range of 0-4,000 rpm. Extended range (0-6,000 or 0-8,000 rpm) instruments lack accuracy at lower speeds. The instrument should be capable of detecting changes of 25 rpm on the low range.

#### Compression Gauge

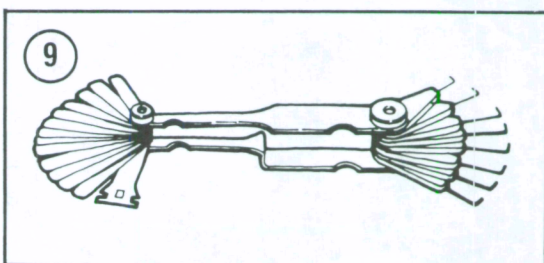
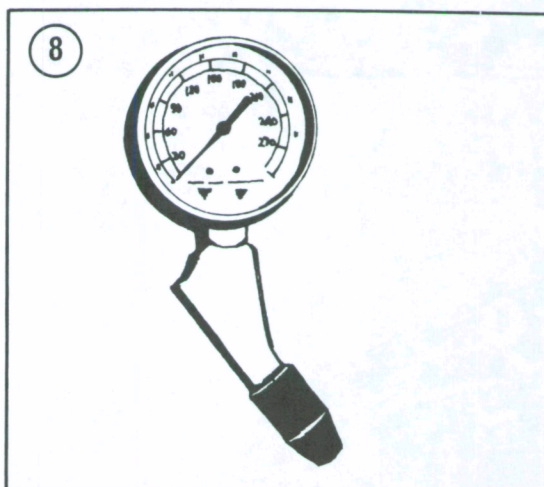
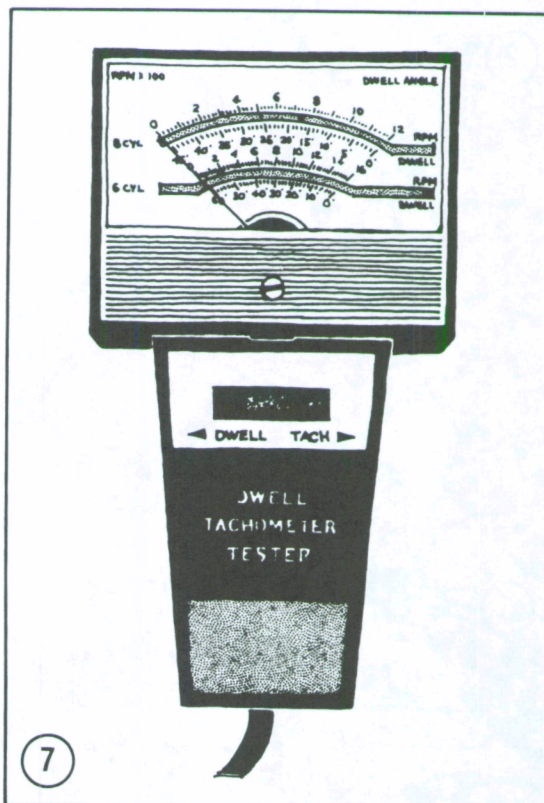
A compression gauge measures the engine compression. The one shown in Figure 8 is the type used for the Honda ATCs covered in this book.

#### Ignition Gauge

This tool has both flat and round wire measuring gauges (Figure 9) and is used to measure contact breaker point gap or ignition pulse generator air gap and to set the spark plug gap. A good one is available at most auto or motorcycle supply stores. Get one calibrated in millimeters.

### "OFF THE ROAD" RULES

Areas set aside for off-road riding by the Federal Government or by state or local agencies are continuing to disappear. The loss of many of these areas is usually due to the few who really don't care



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